



Published weekly for employees of Lawrence Livermore National Laboratory

Friday, December 3, 2004

Vol. 29, No. 47

Biochips power genetic research



LLNL's Microarray Center team will host an open house from 10-11:30 a.m. Tuesday. From left: Ted Rigl, Nisha Mulakken, David Nelson, Hitesh Kapur and Chitra Manohar.

By Charlie Osolin
NEWSLINE STAFF WRITER

Thanks to the recent flood of genomic research, scientists now have a wealth of new information at their fingertips about the genetic code that determines the physical makeup of all living things. But knowing the sequence of an organism's DNA is only one step in understanding the role genes play in the

organism's growth and development, and its susceptibility to disease and physical defects. Microarrays, also known as biochips or gene chips, are a powerful new tool that researchers can use to quickly and efficiently determine which genes in a cell are active, or "expressed," under differing conditions, as well as their level of

See ARRAY, page 7

Cherry Murray selected as 2005 winner of prestigious American Physical Society Prize

Cherry Murray, the newly appointed deputy director for Science & Technology at the Laboratory, has been named the winner of the American Physical Society's (APS) prestigious George Pake Prize for 2005. Murray, a physicist and former senior vice president of Bell Labs Research, Lucent Technologies, joined the Lab Wednesday, Dec. 1. The George Pake Prize is one of the APS' most distinguished awards. It recognizes and encourages outstanding work by physicists combining original

See MURRAY, page 8

CAM's Knezovich tapped to head UC research program

By Stephen Wampler
NEWSLINE STAFF WRITER

For the first time, an LLNL employee has been selected to head a University of California multi-campus research program. John Knezovich has been named the director of the UC Toxic Substances Research and Teaching Program (TSRTP), which is headquartered at UC Davis. Knezovich, who assumed his new post in late October, will continue in his current Lab position as the director of LLNL's Center for Accelerator

See KNEZOVICH, page 7

Campaign for non-profits looks to bring HOME gold with surge to record finish

There is only one week left for employees to make charitable contributions to the HOME Campaign. The deadline for this annual Helping Others More Effectively event is Friday, Dec. 10. Employees may donate online at <http://www-r.llnl.gov/home2004> or return their HOME packets to their organizational team leader. Several prize drawings remain, including the grand prize wine country tour with Black Tie Limousine. Other prizes include a Saturday night stay at the Hilton in Pleasanton, Oakland A's tickets, local restaurant gift certificates, gift baskets and more. Visit the Website for a complete listing. "We've made tremendous progress towards our \$1.6 million goal but still have a week to go," said Al Moser, this years HOME Campaign chair. "Thank you to all employees who have shown their generosity through donations and volunteering for work projects."

More HOME coverage is on page 5.

On the road for the troops



JACQUELINE MCBRIDE/NEWSLINE

A column of motorcyclists from the Lab, Sandia and the community heads down Greenville Road on the way to Site 300 Wednesday to raise money for the Adopt-a-Platoon program. See page 5 for more information on the ride.



DDLS looks to the heavens
— Page 3



Homeland Security Secretary resigns
— Page 4



Next step in LANL contract competition
— Page 7



LAB COMMUNITY NEWS

Weekly Calendar

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Friday
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A representative from **California Casualty Insurance** will be in the Benefits Office today. Appointments are required and may be scheduled by calling 2-9955. California Casualty offers individual rates to Lab employees by payroll deduction for auto and homeowner/renter insurance. As with any employee-paid insurance coverage, employees are encouraged to comparison shop.

Thursday
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A **Fidelity retirement counselor** will be available today and Dec. 16 and 20 to assist with: assessing the current state of retirement accounts, learning how to diversify, planning asset allocation and identifying income strategies. Fidelity Investments Mutual Funds are available to UC's workplace retirement plan participants in addition to the UC-managed investments pools. If you would like to set up a consultation with a Fidelity representative, call 800-642-7131. When calling, be sure to specify that you are an LLNL employee.

Friday
10

The **2004 HOME Campaign** comes to a close today. To date, the campaign has passed the \$1 million mark. The goal for this 30th anniversary campaign is \$1.6 million. Employees who donate through today are eligible for incentive drawings. For more information, visit the web at https://www.ais.llnl.gov/llnl_only/docs/home/welcome.html.

Today is the last day to preorder holiday tamales from Amigos Unidos. Orders must be made in advance. No tamales will be sold on the day of distribution. The cost is \$15/dozen; \$8/half dozen. Order your fresh tamales from one of the following Amigos Unidos members:

Yahel De La Cruz, 4-3507; Jessica Noriega, 2-6750; Gloria Davalos, 3-1410; Irene Ortega, 2-6350; Michael Martin, 3-6580; Rey Bocanegra, 3-5309; Juan Hernandez, 2-0347; Andres Martinez, 3-9752; Marian Barraza, 3-7063; Margaret Single, 2-9978 or Susane Head, 3-6688.

All tamale pick-ups will take place on Wednesday, Dec. 15, from 11:30 a.m. – 1 p.m. at the LLNL picnic area. No tamales will be sold on this day. For more information, contact Yahel De La Cruz, 4-3507, or Jessica Noriega, 2-7650.

Editor's note: Calendar information should be sent to Linda Lucchetti at lucchetti1@llnl.gov

RETIREES' CORNER

There will be no retirees' luncheon in December. In January, there will be a luncheon and no dinner/dance. The January luncheon will be held at the Elks Club on Springtown Boulevard and the speaker will be announced in the January Retirees' Corner.

After **Ron Carr** (Mechanical Engineering, 1993) retired from LLNL, he worked as a contract employee at Sandia and then Los Alamos for about 11 years. He was assigned to work at LLNL on the NIF project. This past February he truly quit working. He and his wife, Donna, moved to El Dorado Hills (20 miles east of Sacramento) two years ago. They spend a lot of time golfing, seeing plays, shopping and, like many retirees, taking cruises.

This past year they cruised for 28 days on the Celebrity Constellation. The cruise started from San Juan, Puerto Rico and went to Dover, England and then sailed the Baltic. Some of the ports were St. Thomas, St. Martin, five days crossing the Atlantic, Funchal, Lisbon, Le Havre and the end of the first leg was Dover. The trip across the Atlantic was very smooth and warm but crossing the Bay of Biscayne into the English Channel was choppy.



From Dover they went to Oslo, Stockholm, Helsinki, spent two days in St. Petersburg, Tallinn (Estonia), Rostock (Germany), Copenhagen, and back to Dover. St. Petersburg was the absolute highlight of the cruise. The city is beautiful and they visited the Hermitage, Peterhof Palace, churches and other historic sites. They have also cruised Alaska, the Panama Canal, the Caribbean and Greece. Ron's e-mail address is roncarr5@comcast.net. Check out pictures of the Carr's adventures on the retirees' Web-site: www.llnlretirees.org

Gordon S. Smith, who retired from LLNL in 1991, has written a book of short stories: "A Tribute To My Brother Alan and Other Stories." It was sold at Goodenough/Altamont Books in Livermore and book stores outside of St. Louis, Mo. A CD is now available for sale for Christmas from Altamont Books. Smith has been a member of a writing class at Las Positas College.

Please send any input to Jane or Gus Olson. E-mail: AugustO@aol.com or JaneRubert@aol.com. Phone: (925) 443-4349, or 493 Joyce Street, Livermore, CA 94550.

IN MEMORIAM

George Kumparak

Memorial services will be held today for George Steve Kumparak, a Lab retiree who died in his Livermore home Nov. 18, after an eight-year battle against lymphoma. He was 72.

Kumparak worked at the Laboratory for 31 years in Human Resources, retiring in 1991. Born in Miami, Ariz., he came to California at the age of 16 to attend San Jose State. His education was sidetracked when he joined the Army in 1952 to serve in Korea as a member of the military police. He returned to San Jose State, where he received his degree.

Kumparak was active with the Croatian Scholarship Fund, a nonprofit group that sent students to universities throughout Croatia.

Survivors include his wife of 31 years, Joan, and a blended family of seven children and stepchildren and 16 grandchildren.

Services will be held at 2:30 p.m. today at St. Philip's Lutheran Church, 8850 Davona Way, Dublin.

Contribution in his memory may be made to the Croatian Scholarship Fund, P.O. Box 290, San Ramon 94583.

Robert L. Frazier

Robert L. Frazier of Pleasanton died Nov. 20. He was 61.

Born in Lawrence, Kan. On July 31, 1943, he graduated from the University of Kansas with a bachelor's degree in engineering.

In 1972, he moved to Sacramento, relocating to Pleasanton in 1976. He worked at the Laboratory until he retired in 2002.

Frazier was a deacon for the Pleasanton Presbyterian Church. He also was a member of the American Society of Heating and of the Refrigerating and Air-Conditioning Engineers. He also was a member of the UK Alumni Association and the National Rifle Association.

He is survived by his wife of 36 years, Toni D. Frazier; daughter, Sarah Elizabeth Frazier of Pleasanton; uncle, Owen Miller of Emporia, Kan.; cousins, Robert Kemp of Titusville, Fla., and Carol Lord of Godfrey, Ill.; mother-in-law, Elizabeth Douglas of Bullhead City, Ariz.; brother-in-law, David Douglas of Roseville; sisters-in-law, Tedi Tumlinson of Bullhead City, Dana Walline of Bainbridge Island, Wash. and Anita Tonsing of Walnut Creek; three nephews and two nieces.

Services have been held. Donations may be

made to the National Kidney Foundation, 30 E. 33rd St., Suite 1100, New York, NY 10016.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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Photographer: Jacqueline McBride

Designer: Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808

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AROUND THE LAB



Max to discuss black holes during DDLS presentation

Claire Max will deliver a Director’s Distinguished Lecturer Series presentation, “A Sharper Image: Black Holes in the Cores of Nearby Galaxies,” at 3:30 p.m. Monday, Dec. 13, in the Bldg. 123 auditorium.

Max is a physicist at the Lab’s Institute of Geophysics and Planetary Physics, a professor of Astronomy and Astrophysics and associate director at the Center for Adaptive



Claire Max

Optics, UC Santa Cruz.

The advent of adaptive optics on the largest ground-based astronomical telescopes makes it possible for observers on the ground to compensate for the blurring caused by turbulence in the Earth’s atmosphere, and in some cases, to “see” as well as space-based observatories.

Max’s talk will explore what has been learned about black

holes in the cores of two nearby galaxies, using adaptive optics at the 10-m Keck II telescope. Recent observations indicate that mergers between galaxies play a critical role in galaxy evolution and in the formation and feeding of central black holes. Max will describe observations of two merging disk galaxies and of a powerful radio galaxy that clarify how galaxy mergers influence black hole activity.

For further details see the DDLS Website: <http://lsto.llnl.gov/DDLS/index.html>.

Laboratory institutes AHJ inspections for ensuring electrical safety

How do you know the electrical equipment you use at the Laboratory is safe? The question, says Keith Gershon, the electrical safety subject matter expert in Hazards Control, goes to the heart of Integrated Safety Management (ISM).

The answer, he notes, typically comes in the form of another question: “Does the equipment have a ‘listing mark’ by Underwriters Laboratories (UL) or some other recognized third party testing lab, called a Nationally Recognized

Testing Laboratory, or NRTL?”

Equipment that has been fabricated by the Laboratory will not have been NRTL-certified. Sometimes, commercially vended scientific equipment also will lack NRTL certification. For programmatic equipment such as this, the Laboratory has created a process called Program Authority Having Jurisdiction (P-AHJ), Gershon said.

In general, he explained, electrical equipment that does not have a recognized third party certification must be AHJ inspect-

ed. The Laboratory has trained approximately 100 P-AHJ inspectors, who represent nearly all programmatic areas, to assess and approve the equipment that is not certified by an NRTL.

Inspections have begun, and Gershon said the Laboratory has informed the Department of Energy that it intends to have inspections of all in-service equipment completed by December 2005.

Here are some frequently asked questions about the AHJ equipment inspections and NRTLs.



Q. Who is responsible for ensuring that electrical equipment is AHJ inspected? Who pays for the inspections and corrections?

A. The equipment supervisor is responsible for the safety of equipment, therefore he/she is responsible for any required inspections and repairs.

Q. How do I arrange for an inspection of my equipment?

A. Contact any P-AH

Q. Who is responsible for ensuring that electrical equipment is AHJ inspected? Who pays for the inspections and corrections?

A. The equipment supervisor is responsible for the safety of equipment, therefore he/she is responsible for any required inspections and repairs.

Q. How do I arrange for an inspection of my equipment?

A. Contact any P-AHJ inspector and request an inspection. Some programs are coordinating this effort through the assurance manager or safety committee. Ask your supervisor how your organization is handling it.

Q. Will my equipment be removed from service?

A: The inspector will work

with you to ensure that your processes are not interrupted. Equipment will only be removed from service if it presents an immediate safety hazard.

Q. If the equipment fails, will the inspector tell me how to correct it?

A: The inspector will tell you the reasons the equipment failed. The inspector may suggest corrective measures, but these are ultimately the responsibility of the equipment supervisor.

Q: What is an NRTL, and how do I know whether my equipment has been NRTL-certified?

A: Certified equipment will bear a mark by one of the approved agencies. Examples of NRTL marks are in the illustration (at right).

Q. Is the CE mark or ISO 9001 an acceptable safety certification?

A. No. CE is an economic requirement of the European Union and is applied by the manufacturer without independent testing. ISO 9001 is a management process certification.

Q. I have noticed many different stickers being applied by AHJ inspectors.

What do they mean?

A. Colored stickers are applied to indicate that equipment has been identified for future inspection, that certain equipment may not require inspection, that equipment has been inspected and has passed or failed. More information is available at http://www-r.llnl.gov/es_and_h/ahj/ahjlabinstruc.html.

Q. If I see an AHJ barcode on my equipment, does that mean it has passed inspection?

A. The barcode



means that the equipment has been identified and entered into the AHJ database. Once it passes inspection, it will get a green circular sticker with the words “AHJ Approved.”

Q. Where can I get more information about the AHJ and electrical equipment inspections?

A. See the AHJ Website at http://www-r.llnl.gov/es_and_h/ahj/, or call 2-PAHJ (2-7245) and request an inspection. Some programs are coordinating this effort through the assurance manager or safety committee. Ask your supervisor how your organization is handling it.



NRTL marks



NEWS YOU CAN USE

Homeland Security Secretary Tom Ridge announces resignation

Homeland Security Secretary Tom Ridge announced his resignation Tuesday at a press conference in Washington D.C.

“As I’ve said to the President, there will always be more work for us to do in Homeland Security, but if you take a look at many of the innovations, the improvements to security, the enhancements to safety at ports of entry and the partnerships that we’ve developed with the state and locals and the private

sector, I think we have accomplished a great deal in a short period of time,” Ridge said. “All in all, I think it’s a reflection of the commitment and the dedication and the energy and the professionalism of the combined power of 180,000 people strong.”

In October 2001 following the terror attacks of September 11, Ridge became the nation’s first White House homeland security adviser, leading a massive undertaking to rethink all aspects of security within

U.S. borders. Congress subsequently passed legislation establishing the Homeland Security Department, merging 180,000 employees from 22 government agencies. Ridge became the department’s first secretary in January 2003.

The Bush Administration will select a successor. Ridge said he would continue to serve as secretary of homeland security until Feb. 1, 2005, unless a successor is confirmed by the Senate earlier.

Technical Meeting Calendar

Friday 3

INSTITUTE FOR GEOPHYSICS AND PLANETARY PHYSICS

“X-Rays and the Formation of Sun-Like Stars,” by Al Glassgold, UC Berkeley. Noon, Bldg. 319, room 205. All attendees need to be badged. Contact: Wil van Breugel, 2-7195, or Rachael Mills, 2-6333.

N DIVISION SEMINAR

“Heavy Ion Physics with the ALICE Experiment at the LHC,” by Thomas Cormier. 10:30 a.m., Trailer 2128, Ballroom. Contact: Jenn Klay, 2-4058, or Annette Cook, 2-7856.

LLNL/NAVAL POSTGRADUATE SCHOOL

“Building and Using the National Ignition Facility (NIF), the World’s Largest Laser,” by Edward Moses, NIF deputy associate director and project manager. 11 a.m., Spanagel 117 Lecture Hall, Naval Postgraduate School, Monterey. Unclassified. This lecture is part of the continuing LLNL/NPS joint lecture series, which is sponsored by the University Relations Program. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

Monday 6

PHYSICS & ADVANCED TECHNOLOGIES

“Femtosecond Electron Diffraction: ‘Making the Molecular Movie,’ ” by R. J. Dwayne Miller. 10:30 a.m., Bldg. 219, room 163. Contact: Stefanie B. Landes, 2-3201.

N DIVISION SEMINAR

“The Strongly Coupled Plasma at RHIC and Soon LHC,” by Denes Molnar. 9 a.m., Trailer 2128, ballroom. Contact: Ron Soltz, 3-2647, or Annette Cook, 2-7856.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Designing Next Generation High Performance Clusters and Datacenters with InfiniBand,” by Dhabaleswar (DK) Panda, Ohio State University. 10 a.m., Bldg. 451, room 1025 (property protection area). Contact: Terry Jones, 3-9834, or Leslie Bills, 3-8927.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Faster Integration of Stiff Systems with Exponential Propagation Iterative Methods (EPI),” by Mayya Tokman, University of California, Berkeley. 10 a.m., Trailer 3427, room 1220 Onyx Room (property protection area). Contact: Dan Reynolds (CASC), 2-4022, or Leslie Bills, 3-8927.

Tuesday 7

N DIVISION SEMINAR

“Applying the Bloch-Horowitz Equation to P-shell Nuclei,” by Thomas Luu. 10:30 a.m., Trailer 2128, ballroom. Contact: Erich Ormand, 2-8194, or Annette Cook, 2-7856.

RADIATION DETECTION CENTER

“Thermal Design and Performance of the Gamma Ray Spectrometer for the Mercury MESSENGER Spacecraft,” by Morgan Burks. 1:30 p.m., Bldg. 151, room 1209 (Stevenson Conference Room, unclassified area). Contact: Ron Wurtz, 3-8504, or Christie Shannon, 3-6683.

ASC INSTITUTE FOR TERASCALE SIMULATION

“Compilers for High Performance Computer Systems: Do They Have a Future?” by Ken Kennedy, John and Ann Doerr, Rice University. 2 p.m., Bldg. 543 auditorium (property protection area). Contact: Dan Quinlan, (CASC), 3-2668, or Char Paulo, 3-3730 (ISCR).

LLNL/NAVAL POSTGRADUATE SCHOOL

“Naval Postgraduate School Maritime Domain Protection Task Force,” by Capt. Jeffrey Kline. 1 p.m., Bldg. 132S, conference room 1000. Unclassified, L-badge is required for admittance. Refreshments will be served. This lecture is part of the continuing LLNL/NPS joint lecture series, which are sponsored by the University Relations Program. Contact: Tom McGrann, 2-7760, or Brenda Foster, 3-8257.

PHYSICS & ADVANCED TECHNOLOGIES DIRECTORATE-WIDE SEMINAR

“Simulation of Space-Charge-Dominated Ion Beams for Inertial Fusion Energy and Warm Dense Matter Physics,” by Alex Friedman, Fusion Energy Program. 2 p.m., Trailer 2128, conference room 1000 (CUF). Contact: Alan J. Wootton, 2-6533.

CENTER FOR GLOBAL SECURITY RESEARCH

“Europe, America and the Use of Force: Comparing the National Security Strategy and the Solana Doctrine,” by Josef Joffe, Stanford/Hoover Institute, *Die Zeit* editor and *Time Magazine* writer. 1:30 p.m., Bldg. 123, conference room A (P-cleared area). Contact: Karen Kimball, 3-5896, or Lisa Londry, 2-6141.

Wednesday 8

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Fast Discovery of Connection Subgraphs in Social Networks,” by Kevin McCurley, IBM Almaden Research Center. 10:30 a.m., Trailer 3427, room 1220 Onyx Room (property protection area). Contact: Tina Eliassi-Rad, (CASC) 2-1552, or Leslie Bills, 3-8927.

Thursday 9

CHEMISTRY & MATERIALS SCIENCE DIRECTORATE SYMPOSIUM SERIES — FRONTIERS IN CHEMISTRY & MATERIALS SCIENCE

“New Materials Chemistry Under Extreme Conditions,” by Russell J. Hemley, Geophysical Laboratory, Carnegie-DOE Alliance Center (CDAC), Carnegie Institution of Washington. 3:30 p.m., Bldg. 155 auditorium. Coffee and cookies will be served at 3:15 p.m. Foreign nationals may attend if approved security plan is on file, which includes Bldg. 235. Contact: Michael Fluss, 3-6665, or Kathleen Moody, 3-5948.

LLNL/NAVAL POSTGRADUATE SCHOOL

“R&D Activities in Stockpile Stewardship,” by Kent Johnson, chief of staff, Defense and Nuclear Technologies Directorate. 11 a.m., auditorium to be announced, NPS. This lecture is part of the continuing LLNL/NPS joint lecture series, which is sponsored by the University Relations Program. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Mimetic Finite Difference Methods for Partial Differential Equations and Discrete Vector and Tensor Analysis,” by Mikhail Shaskov, Los Alamos National Laboratory. 10 a.m., Bldg. 551W, room 1400 Del Valle Room (property protection area). Contact: Lori Diachin, (CASC) 2-7130, or Leslie Bills, 3-8927.

Friday 10

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“A Semi-Automatic System for Application-level Checkpoint/Recovery (CPR),” by Keshav Pingali, Cornell University. 10 a.m., Bldg. 451, room 1025 (property protection area). Contact: Martin Schulz, (CASC) 3-6498, or Leslie Bills, 3-8927.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.

Winners of HOME prizes

Recent HOME incentive drawing winners include (left) Tina Legler, Susan Springer and Linda Stuart. Legler won a large pizza from Round Table; Springer won the bobble head of Jason Schmidt, donated by the SF Giants; and Stuart won a \$30 Mimi's Cafe gift certificate.

MARLEEN EMIG/CHEMISTRY



HOME directorate participation statistics

Directorate	Total employees	No. of contributions	Amount donated	Percent participation
Director's Office	152	98	66,374	64
Administration & Human Resources	337	196	66,253	58
Biology & Biotechnology Research	217	78	25,592	36
Chemistry & Materials Science	495	206	114,963	42
Chief Financial Officer	104	71	20,529	68
Computation	1034	381	187,008	37
Defense & Nuclear Technologies	362	133	65,676	37
Energy & Environment	291	107	43,293	37
Engineering	2054	590	292,610	29
Laboratory Services	1241	365	100,587	29
National Ignition Facility (NIF) Programs	201	82	30,292	41
Nonproliferation, Arms Control & International Security	231	84	43,294	36
Physics & Advanced Technologies	348	174	71,641	50
Safeguards & Security	362	61	16,081	17
Safety & Environmental Protection	743	307	111,332	41
S/L Vendor	—	—	41,972	—
S/L Vendor matching funds	—	—	41,972	—
Retirees	36	36	8,800	100
Others	34	34	5,075	100
Totals as of Dec. 3	8,242	3,003	1,353,346	36
Goal for the 2004 HOME Campaign			\$1.6 million	

Lab motorcycle rally raises funds for troops

More than 100 motorcyclists converged on the Laboratory Wednesday for a noontime trek to Site 300 to raise money for U.S. troops in Iraq.

Lab employee Yvette Strobe originally was just gathering donations from employees for the Adopt-a-Platoon project. Ted Sheppard of Laboratory Services working with the Laboratory's Armed Forces Veterans Association suggested a noontime motorcycle ride and the project grew from there. Lab and Sandia employees as well as guests joined the ride.

One of the Lab's Fire Department trucks led the ride through East Gate, to south Greenville Road and then east on Tesla. The fire department also provided a free barbecue lunch to riders.

The ride netted \$3,117 in donations to be used for gifts and supplies for U.S. Army A Company 8th Engineer Battalion in Baghdad.



JACQUELINE MCBRIDE/NEWSLINE

LLNL Fire Chief Randy Bradley, Chelle Clements of LLLFVA, Ted Sheppard and Adopt-a-Platoon organizer Yvette Strobe helped organize a noontime ride to Site 300 to raise funds for U.S. troops.



AUTOMOBILES

1997 Thunderbird, perfect condition in and out. Very low miles, cassette, all power. Well maintained. Must see to appreciate. 510-582-2938

1973 - Mazda MPV, 140K mi, 6 cyl, all power options, well maintained, great commute & family car, original owner - \$2300.00 415-543-3643

1992 - Toyota Corolla. 180K miles. Runs great. Blue Book private party shows \$1695. Needs windshield so asking \$1300. 925-606-0260

2002 - VW Passat 4dr-sedan, 1.8L Turbo, 35k miles, warranted to 2006, auto all, custom chrome wheels, many xtras, cell 209-814-4064 MINT COND \$15,250 209-832-2056

1994 - Mustang GT convertible, AT, AC, white with tan top, 108k miles, very good condition, \$6500 OBO 925-449-0140

2000 - Tan Chev Activan,21,600miles,Automated Ramp, Hand controls,Lock mechanism on drivers side to secure power chair.Radio& cassette player \$25k 510-792-5484

2003 - Hyundai Elantra GT 19,000K Miles w/ balance of 5-yr/60,000 mile warranty. Manual 5-speed, leather interior,loaded. Must sell \$12,000.00 Call today 925-625-6106

2000 - 4wd Nissan Xterra, fully loaded. Excellent condition. Mileage=46K. Transferable warranty. \$16,400 with warranty. 925-360-6557

2003 - Mitsubishi Eclipse GS, 4Cyl. 2.4 Liter Auto w/ Sportronic Trans, AC, CC, PW&D, Sun and Sound pkg. 29K mi. Asking \$14,200 obo. 209-832-0474

1965 - Classic 1965 Thunderbird, 390, runs good, interior great cond, straight, needs paint. \$5000 obo 925-449-1340

1995 - Saturn,SL2,excellent condition, maroon,power sunroof,ac,ps, ABS pb, AM/FM stereo,cruise control, remote locking,91K miles, \$3200. 925-443-1279

1999 - Mercedes E320, 3.2 litre V-6, Excellent condition, Sun Roof, CD Changer, Auto and manual Shift, White, 68,000 mi., \$22,500 OBO 209-603-9295

1973 - Plymouth Sattelite Sebring. Black 2 DR hardtop. V8, 4 SPD trans, headers, 4 barrel carb. Reliable and fun. Leave a message for Matt. \$5500 925-784-2844

1997 - Beautiful, well maintained Thunderbird. Very low miles, excellent condition in and out. Extended full 3 year warrenty. 510-582-2938

2003 - Jetta GL-white w/ blk int., auto trans, am/fm/cd, pwr wnd, keyless entry, 29 MPG, great commuter, 49K mi, \$14,000 obo 209-380-1953

1998 - GMC Jimmy 83k miles lthr int tow pkg cd new tires battery ex condition \$7000 925-513-3538

1988 - Toyota Corolla LE, 186K Reliable and runs well New CD/Radio and tires \$1200. 925-980-7924

AUTOMOBILE ACCESSORIES

Snow cable chains, used once - 1 mile, \$40 (paid \$60) Fits LR78-16LT, LT215-70R17.5,30x9.50-15LT, 31x9.50-15LT, 34x9.50-15LT 925-606-0234

Hitch mounted cargo carrier, 22 inches x 56 inches. Made of superstrong polymer construction. Fits 2 inch receiver. Brand new. Paid \$60. \$40. 925-648-0671

Truck tire 205x75x15 new on wheel \$75. Snow tires 2 each, 13 or 14 inch size \$30 pair. 925-735-6002

BICYCLES

NISHIKI 10 speed womens bicycle, 27 inch alloy wheels, 19 inch frame size, good condition \$50.00 925-443-7752

BOATS

17.5ft Fisher FS 60hp mariner, rmt tilt & trim,walkthru windshield, 24v trolling mtr, 2 fishfinders,pedestal seat.seats 6 swim step.\$6100, 925-872-6111

CAMERAS

Nikon F-100 body only. (Black) Excellent condition. Asking \$479.00 650-348-8872

ELECTRONIC EQUIPMENT

Sony 20inch TV with remote \$150, Onkyo hi-end turntable, great condition with cartridge \$100. Offers accepted. 415-543-3643

Epson Stylus Color 880 printer, Windows or Mac, USB or parallel, self-test checks out well. \$20. 925-443-5525

CLASSIFIED ADS

eMac Apple Computer 1.25GHz PowerPC/G4 i512MB SDRAM i80GB Ultra drive iCombo CD/DVD iUS Keyboard/Optical mouse - 3 months old & under warranty/ \$750 925-373-8625

Video Games (used) for Playstation2: Dragonball-Z Budokai and Dragonball-Z Budokai-2 w/strategy guide. \$15 each or best offer. 925-447-1360

Home Theatre. Harman Kardon Sig. 2.0 Pre/Pro DD5.1,DTS.\$375/obo. Carver 5ch amp. AV-505 80w rated, 100w act./150w peak \$325/obo. \$600 both. 209-825-4809

Packard-Bell home PC. 100 mhz, 82mb RAM, 1.6 Gb Hard drive, Windows 95. 15 in. mon. \$75 obo. 408-296-7637

15GB IPOD. Brand new, still in vacuum sealed plastic. \$300 OBO Leave a message 925-784-2844

GIVEAWAY

Mitsubishi 25 inch color television. Swivel wood case. 18 years old. Good Condition. 925-829-3226

Roomba Pro Elite Robotic FloorVac. Has traveling problem, but otherwise in working order. Repair, experiment with, or use for parts. 925-443-5138

Almost a give-away! Approx. a quarter cord of firewood (almond?). \$25. You haul away. In Tracy. 209-832-2790

Kitchen Aid dishwasher. Clean-no rust, no leaks, no charge. Works perfect. 925-846-3943

HOUSEHOLD

HON vertical 2-drawer file cabinet, light gray, excellent condition. \$60. 925-449-4296

SEARS MAYTAG PLUS 18.5 cu. ft. Top Freezer Refrigerator, 2 YRS. OLD Mir. model #MTB1956, WHT, 67-1/4IN. X 28-7/8IN. \$300. 925-447-4370

3 piece, wrap around desk w/ hutch, gray & black, good condition, moving so I must sell ASAP. \$250.00 OBO 925-890-6370

Remodeling sale: clothes washer & dryer, dishwasher, duel oven, cook-top (Jenn-Air), fridge (Sub-zero), microwave, and oak bedroom set. 925-449-5514

Peg Perego Pliko stroller, Dk Blue, great condition, \$100. Large Little Tykes folding picnic table, \$25. 925-294-9022

4 Breuner chairs with arm rest, like new \$60 for set of 4 or best offer. 415-543-3643

6 piece Queen bedroom set oak color includes; bookcase headboard, nightstand, 4 drawer chest, dresser w/mirror, armoire, frame, box spring \$500/OBO. 209-599-1955

Refurbished Kirby vacuum cleaner with attachments. \$50 925-820-3048

Antique Oak Armiours, 3 to choose from. \$350 ea plus Antique Oak secratery. Located in Manteca. I can email photos to you. 209-606-6445

50s era electric range Norge Mfg. by Borg Warner, free standing, white, very clean inside and out, works well. \$70.00 or best offer. 925-447-3965

Vaughan-Basset Entertainment Center Armoire. Light oak, 2 drawers, 2 doors, tv shelf, vcr storage, 74x48x24. Brand new in packaging. \$525.00 OBO 925-449-9167

Tray Tables, solid wood, set of 4 with stand, Early American style with walnut finish. \$50 Evenings 925-447-6450

Trampoline 22foot. The kids do not use it anymore. Only 3 years old and in great shape. \$300 I can deliver within 25 miles of Tracy.I have pics. 209-833-7149

Electric lift reclining chair, great condition \$500 510-538-7444

GE Profile gas dryer. Almost new - used only a few months. White. \$150 OBO 925-443-8580

Washer. Sears Kennmore, heavy duty,mint condition. \$100 925-373-6255

Christmas Craft Boutique/Saturday, December 4th @ Joe Mitchell School, 1001 Elaine Avenue, Livermore, Noon to 5:00 p.m. Great holiday gifts! 925-455-5245

Washing machine, super capacity, only used for 1 year. \$100.00 925-456-3029

Amana glass cooktop,GE spacemaker microwave, Maytag 24in double selfcleaning oven. All less than 15 yrs old , excellent cond. \$100 each 925-449-9294

Waterbed Mattress, Cal.King with heater, like new, no holes. \$65obo 209-823-9309

Rectangular glass table seats six with or without chairs, marble bakers rack, custom bar stools, decor changes priced to sell quickly. 925-516-8925

2- 46x71 double paned windows w/3in. plantation shutters. internal white grid, great condition. \$200ea or \$350 both. 925-606-

6310

MOVING! MUST SELL EVERYTHING IN EVERY ROOM! Furniture, electronics, housewares, more. Call to see if I have what you are looking for. In Livermore. 925-339-1652

46inch x 35inch wooden eating table with 4 chairs. Good condition, \$200 925-606-0882

Brand new, Kohler portrait light series, self-rimming sink in white. \$75.00 925-606-6515

Blue leather couch - \$75. Rattan swivel rocker & footstool with custom denim cushion - \$50. Classic wooden rocking chair - \$50. 925-245-0915

LOST & FOUND

Lost at bldg. 191 or between 191 & 132 \$100.00 in 20.00 on the morning of 11-30-04 Please contact me at me work phone 4-5868 510-886-6294

I lost my glasses while I was going to bldgs 111,315,170,155 and 132N on 11/17/04 at 2pm. If found, please call 3-8299. 925-455-5812

MISCELLANEOUS

Cargo carrier, hitch mounted, 22 inches x 56 inches. Polymer construction. Fits on back of vehicle w/2 inch receiver. Paid \$60. New in box. \$40. 925-648-0671

Snow cable chains, used once - 1 mile, \$40 (paid \$60) Fits LR78-16LT, LT215-70R17.5,30x9.50-15LT, 31x9.50-15LT, 34x9.50-15LT 925-606-0234

Kenmore washer and dryer (like new) \$450 Whirlpool side by side refrigerator \$350 Futon w/ black cushion \$200 925-980-0923

Simplicity 7 series vacuum cleaner. Brand new in packaging. Comes with 5 yr warranty, extra bags, hepa filter and attachments. \$225.00 OBO. 925-449-9167

Evenflo infant 5pt. harness car seat, wood high chair, Graco open top automatic swing. Great condition. Each item \$45. 925-837-1770

Dolls for Sale: Antique German dolls, Madame Alexanders, Barbies, too many to list. Must sell. Great Christmas gifts! 925-447-2096

Video Games (used): Starfox Adventures (GameCube) and Grand Theft Auto III (Playstation2), \$15 each/BO. 925-447-1360

Black Futon-\$75, Oak coffee table-\$50,end tables \$25 ea, pine end tables-\$25ea, computer-e-machine W/printer, like new-\$80 cell 925-784-0603 925-447-7088

18in Obsession Telescope. Like New, with Lasermax collimator, finder, telrad, shroud, and wheel handles. \$4000 209-839-2212

Dry bar, light oak, shaped in a J, good condition, \$300obo 209-823-9309

SF 49ers vs. Buffalo Dec. 26th 2 tix @ face value \$64/ea. UR, Sec 38 209-599-9942

exterior door (36x80in). opens left to right. w/3in white vinyl plantation shutters. great condition. \$100 925-606-6310

DragonBall GT, entire DVD collection, excellent condition, all episodes (15), make offer. 925-292-0348

New drain pipe four inch, flex, \$30, Air compressor 1 cyl as is \$50, Platform scale 140lbs. cap. \$40. 925-735-6002

Homemade Christmas Goodies in reusable Christmas containers. Pecan Caramel Clusters, Rocky Road, Fudge, Snowball cookies. Prices vary. 209-239-6016

Pokemon and Yu-gi-oh! cards. Over \$300 worth! Only \$50 for all! 209-832-2790

25 drawer stacking file cabinet with 2 pull-out boards, 5 sections. Dated 1955 \$250.00 925-447-0428

Classic metal patio furniture, partial set that is in need of refinishing. Chair and love seat. Make offer. 925-606-6515

MOTORCYCLES

82 Yamaha MX100, Great beginners bike!Looks good runs great. Very Reliable \$550 209-836-3481

2004 - Honda EX400 Quad, Yellow, <20 hours. 831-636-6788. 831-524-1388

2003 - Yamaha YZ85, Low hours, well maintained, Renthal bars, new tires, FMS silencer, \$2300, OBO. 925-447-0546

1999 - Suzuki sv650 8000 miles excellent cond. \$4000.00 925-443-3467

1985 - Honda VT1100C Shadow. Runs great, good condition. \$2,600. 925-456-3010

MUSIC INSTRUMENTS

PIANO, upright, antique, circa 1890, \$300.

209-607-3816

PETS & SUPPLIES

Rescued kittens need loving forever home. Please consider adopting one or even two! Vaccinated and spay/neutered. \$75 adoption fee 925-980-3035

If you love kittens and are interested in providing a temporary foster home until we can find forever homes, please call me 209-833-0607

Double yellow Amazon parrot, with cage. \$1500/BO. For more info, please call 925-803-7627

Australian Shepherd Puppies. AKC registered blue merles and black tris born 10/5 ready to go home anytime. \$450 and up. 209-824-2394

AKC White Lab Stud looking for female for breeding AKC white/yellow only. Male English show bloodlines. Pick of litter. 209-983-8372

RECREATION EQUIPMENT

Skis-mens- Rossignol good condition-\$45. 925-447-8415

Treadmill, Vitamaster Premier Pro 2.5, speed and incline programmable. Great deal at \$75.00 925-371-0507

Soloflex with butterfly and leg-extension add-ons. Perfect condition always garaged. Fight the holiday pounds NOW!! \$400 (\$1500 new) 209-814-8904

1990 Wilderness 5th wheel trailer, 21.5 ft, great condition, self-contained, A/C-heat, CD player, many extras, \$4,500 obo 925-989-5364

1986 El Dorado Mirado motorhome. 29 feet, full kitchen and bath, sleeps 6. A/C, storage. \$10,000. OBO. Will accept reasonable offers. 925-456-3010

1972 Jeep CJ-5 lifted, engine solid, smog-exempt, needs body work. \$2500/OBO. 209-456-6947

Portable basket ball hoop. Water or sand base. Great shape. \$30.00 925-606-6515

Bun & Thigh Roller, exercise trainer. New condition. \$35.00 925-606-6515

RIDESHARING

Express your commute, call 2-RIDE for more information or visit their website.

Tracy - Wanted car/vanpool. I work 5, 8 hour days and am willing to adjust my work schedule to join a car/vanpool. 209-833-6398, ext. 2-3981

Modesto - Vanpool needs rider. Meets at Home Depot on Carpenter Road and leaves in am at 6:35. Leaves Lab at 4:45pm. 209-576-0217, ext. 2-7459

Orinda - Carpool from Lamorinda seeks 4th driver/rider. Meets at El Nido and Charles Hill in Orinda near St. Stephens+Highwy 24. Lab hours 8am-4:45pm. 925-253-0498, ext. 2-9823

Modesto - 8 to 4:30 work schedule. Captain chairs, reading lights, \$125 per month minus transit pretax. Save more if you would like to help drive? 209-521-9047, ext. 2-5177

El Cerrito - Berkeley Vanpool has openings for full time or casual riders. M-F 7:45 am to 4:30 pm work schedule. 510-524-5769, ext. 3-7995

SERVICES

Licensed Livermore daycare provider has an immediate opening. Loving, nurturing environment. Ages 2 months to 4 years. 925-606-0697

SHARED HOUSING

Livermore - Room for rent. Clean person. Pvt bath, use of kitchen, laundry and Pool. No pets/no smoking. Deposit. Share utilities. \$600 mo. 925-989-4131

Livermore - Room for rent in great house. 2 bedroom 2 bath plus office and pool. No pets/no smoking. Share utilities. \$850.00/month 925-963-5126

Livermore - unfurnished master bedroom and bath Apt.close to lab.Pool,Spa,Tennis Courts and indoor laundry.Avaliable now for \$625.00 per month 925-454-9649

Tracy - Room for Rent - 3bd/2bath house. \$600/month + 1/3 utilities + deposit. 209-835-8249

Discovery Bay - Golf Course Home; Spacious Bedroom w/private bath; Garage parking; No Pets 925-437-4297

Tracy - Room, Bath & Garage in Gorgeous 5 bedroom home, Pool/Hot tub - inside laundry,full privileges, excellent freeway access. \$850 includes utilities 209-830-7272

TO TRADE

Anyone want to trade size 1 prom dresses? Our dresses have been worn less than 8 hours but ALL our friends have seen them. 209-823-0976

TRUCKS & TRAILERS

2002 - Chevrolet Silverado 1500 Extended Cab Short Bed 4x2, Red, A/C, AM/FM/CD, 58,000 miles, \$16,400 OBO 209-521-7702

1968 - Ford f 250 pickup. Granny 4 speed, dana 60 rear end and 360 v8. Has some fender rust through. Runs rough.Will need to be trailered. \$400 209-368-4286

1993 - GMC Jimmy, 4 door, power everything, leather, a/c, clean body, needs tune up, tow pkg, roof rack, \$2500 OBO. 209-833-7358

1972 - Jeep CJ-5 lifted, engine solid, smog-exempt, needs body work. \$2500/OBO. 209-456-6947

VACATION RENTALS

Midway (Park City), Utah - Furnished Townhouse with garage for nightly rental (3 min). Sleeps 8. 15 min to Deer Valley lift. Gorgeous views. Pix avail. 866-707-7653

Cozy mountain cabin near Arnold. 4 bedr, 2 bath, fully equipped kitchen, warm wood burning stove. Sleeps 10-12. Snow fun!! 925-245-1114

Soooo cute beach cottage in Santa Cruz. 2 bedr, 2 bath, fully equipped kitchen, spa. 4 blks from ocean. Near harbor. 925-245-1114

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8 Walk to Royal Gorge 5 min to Sugar Bowl \$250 wknd,\$550/week call for availability 209-836-3481

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

Tahoe Keys - 3 bdrm, 2.5 bath house, fenced yard, great views of water and mountains, \$195 per night, call for details 925-376-2211

Perfect location for skiers! Tahoe cabin for rent 2 blocks from Heavenly. Sleeps approx 8 adults. \$400/wk, \$200/wknd. 925-240-1615

Solana Beach/Del Mar - Oceanfront condo, deluxe 2 br., 2 1/2 ba., fully equipped, tennis, pools jacuzzi, gated and covered parking, near San Diego attractions 925-443-2271

Kona Hawaii - Kona Billfisher, RCI resort of international distinction. 1 bedroom, 1 bath, fully equipped kitchen, available march 15 - april 13, \$500 per week. 925-634-4831

SOUTH LAKE TAHOE - 3Bedroom 2Bath Chalet, comfortably furnished, all amenities,close to all skiing, Pre-christmas openings,RESERVE NOW FOR HOLIDAYS/SKIING! 209-599-4644

WANTED

Need your usable lumber 2 x 4s you want to dispose of. Will pick up. 925-245-1414

Thomas the Tank Engine train tracks or trains. These are small wood tracks and trains for kids 2-5 years. 925-245-1414

Old 50s jukebox to play 45 or 78 RPM records. All or part 925-449-0388

Looking for a wood chipper. 209-368-4286

Wanted: carpenter to install 13 new solid core pre-hung doors and build 12i x 28ft deck in Livermore home. 925-449-8328

Ski boat - prefer 18 to 19 ft, V6 engine, I/O drive in good condition. 925-803-7627

Stamp collector looking for stamp collections, new and old, and any related paper items. Any size collection considered. 925-449-1294

Wanted two tickets to San Francisco symphony, Joshua Bell plays Tchaikovsky, Fri. Dec. 10 or Sat. Dec. 11. 925-443-3688

WANTED: full size mattress for spare bedroom, just looking for one someone wants to get off their hands for free or really cheap 209-836-3806

Karaoke machine - borrow or rent for small fee - need for holiday party on 12/17/04 925-449-1481

NNSA seeks comment on draft RFP to manage Los Alamos

The National Nuclear Security Administration (NNSA) is seeking comments on a draft Request for Proposal (RFP) for the competitive selection of a management and operating contractor for Los Alamos National Laboratory.

NNSA seeks bids from contractors with the capability to manage world-class science and achieve excellent operations and management performance. Key elements of the proposed contract included in the draft RFP are:

- Unique contract clauses intended to redefine the federal-contractor relationship, to transition to industrial standards and best practices, to capitalize on private sector expertise, and to increase contractor accountability and efficiencies.
- An “award term” provision to permit extension of the resulting contract for incremental periods up to 15 years beyond the initial five-year term as an incentive for superior performance.
- A requirement to retain LANL’s current workforce (excluding the laboratory director and the most senior managers) and provide comparable pay and benefits.
- A requirement that the contractor be a constructive partner in northern New Mexico by engaging regional stakeholders in issues and con-

cerns of mutual interest, and recognizing that giving back to the community is a worthwhile business practice.

The draft RFP’s evaluation criteria include the potential contractor’s capability to successfully manage world-class scientific research and development, the capability to achieve excellence in laboratory operations and business operations, the proposed organization structure, the proposed key personnel, including the proposed laboratory director, and past performance.

The draft RFP is publicly available at the NNSA Service Center’s LANL M&O Contract Competition Website: <http://www.doeal.gov/LANLContractRecompete/Default.htm>. Responses to questions and other information about the draft RFP will also be posted to this site.

Robert Foley, UC vice president for Laboratory Management, said Wednesday that UC Laboratory Management staff, working with the Los Alamos National Laboratory Acquisition Team, are reviewing the draft RFP.

“We will submit comments to the Department of Energy after a thorough review is completed,” Foley said. “The final decision regarding competition will be made by the University of California Board of Regents. We are pleased that the draft

RFP has been released and that the competition process will now start in earnest.

“As current contract managers, we remain focused on the ongoing management of Los Alamos National Laboratory and ensuring that the lab meets the highest standards for safety, security and management practices.”

NNSA will hold a pre-solicitation conference for prospective bidders in Albuquerque during the comment period, followed by a laboratory site tour. The pre-solicitation conference date and location will be posted on the Website listed above. The draft RFP comment period will be open for a 30-day period. The final RFP will be issued after comments are considered.

The draft RFP provides that proposals will be due to NNSA 60 days after the final RFP is issued. Proposals will be reviewed by NNSA’s Source Evaluation Board, comprised of NNSA technical and business experts, who will provide a report of findings to the NNSA Source Selection Official. The current LANL management and operations contract expires on Sept. 30, 2005. NNSA intends to select a contractor in the summer of 2005 and begin full contract performance on Oct. 1, 2005.

KNEZOVICH

Continued from page 1

Mass Spectrometry (CAMS). He will work at UC Davis one day a week where he holds an adjunct professor appointment in the university’s Department of Environmental Toxicology.

In his new position, he replaces Jerry Last, a professor in the UC Davis School of Medicine. Last was the first and only director of the Toxic Substances Research and Teaching Program (TSRTP) for the past 19 years, since it was founded in 1985.

“I very much consider this appointment an honor,” Knezovich said. “The program has a solid history of producing strong graduate students and quality research. There are emerging issues that the program can address for the state of California.”

One of the reasons Knezovich is excited about his new position, he said, is because of his research background at the Laboratory.

“We at Livermore build multi-disciplinary teams to tackle important research problems. I hope to use my experience in this area to influence

the program.”

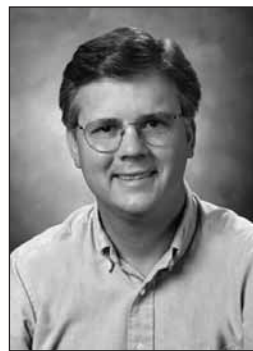
The TSRTP effort was established by UC in the mid-1980s to provide a coordinated program of teaching and research to address the many issues associated with toxic substances in the environment. The move was in response to an initiative by the California State Legislature.

“I think John uniquely, after me, knows the program best and was an obvious choice to be the program’s director,” Last said. “His science is well-regarded. In every way, he’s a good selection.”

Laura Gilliom, director of LLNL’s University Relations Program, agrees. “They couldn’t find a better person to run a multi-campus research program than John Knezovich; he’s just exceptional.”

Jane Long, the Laboratory’s new associate director for Energy and Environment, noted that she is extremely pleased with Knezovich’s appointment and the UC-wide role he will play.

With a budget of \$1.8 million per year, the



John Knezovich

TSRTP primarily funds the research of graduate students who conduct studies on the problems of toxic chemicals in the environment.

TSRTP officials meet twice each year with state and industry representatives to discuss current and emerging issues for toxic substances in California.

Knezovich has represented the Laboratory on the TSRTP’s executive committee, composed of representatives of all 10 UC campuses and three UC-managed national labs, for six years, and was a program associate director for two years.

In 1998, the TSRTP conducted research studies, at the request of the State Legislature, into the effects of methyl tertiary butyl ether (MTBE) that led to the state’s decision to phase out the gasoline additive.

In addition to its other tasks, the TSRTP provides input for risk assessments on toxic substances and also serves as a focal point for bringing together UC and national laboratory researchers in this area.

ARRAY

Continued from page 1

expression and how they interact with each other. And with the official opening of the LLNL Microarray Center (LMAC) next week, scientists across the Lab will have on-site access to the latest state-of-the-art microarray equipment to analyze DNA, proteins and peptides for their research.

“The Laboratory has decided to pull together all of its microarray resources and expertise in a central facility that can be used to serve researchers in the lab environment,” said Ted Rigl of the Biology and Biotechnology Research Program (BBRP), who heads the new center.

“We have people from BBRP, NAI, and other directorates working together with this type of technology,” Rigl said. “We want to put together a true collaborative effort in microarray research.”

Using the LMAC’s equipment and expertise in statistical analysis, Lab scientists will be able to analyze and compare the activity of thousands of genes at a time — substantially furthering their research in such areas as how cells respond to radiation exposure, the causes of cancer and other diseases and the genetic makeup of the bacteria that cause plague and anthrax.

Microarrays are small glass, nylon or silicon slides on which tiny amounts of DNA are spotted or “printed” by robots in a regular pattern. Each spot features short, immobilized DNA segments called oligonucleotides of a given sequence. There are up to 30,000 unique spots per slide, representing hundreds to thousands of different gene sequences.

Fluorescently labeled nucleotide strands representing genes from the cell under study are allowed to bind, or “hybridize,” to their matching counterparts that are immobilized on the slide. By measuring the brightness of each fluorescent spot, researchers can determine how much of a specific DNA fragment is present, indicating how active it is in the cell.

BBRP’s Emilio Garcia, a microbiologist who has been studying *Yersinia pestis*, the plague bacterium, said the LMAC could help his group determine how a host organism’s gene activity changes when it is infected with plague. Another researcher, Sharon Messenger of BBRP’s Biodefense Division, said microarray technologies could further the development of rapid diagnostic techniques for biodetection and forensics.

“Having a microarray center onsite at Lawrence Livermore will be a real asset for this

research,” Messenger said.

Another application of microarray technology is for the study of proteins. Julio Camarero in the BioSecurity and Nanosciences Laboratory in the Chemistry and Materials Science Directorate is collaborating with Matt Coleman of BBRP to study protein-protein and protein-DNA interactions using protein arrays, and to isolate proteins of interest without time-consuming sample purification.

The LMAC sports a wide range of state-of-the-art equipment, including a high-speed, high-performance printer that can print DNA, protein and peptide microarrays; a complete Affymetrix GeneChip microarray system for processing, scanning and analyzing commercial, preprinted slides; and a laser scanner that provides one- to four-color detection simultaneously.

The center’s staff will hold an open house from 10-11:30 a.m. Tuesday, Dec. 7, beginning with a short presentation in the Bldg. 361 auditorium. Representatives from such companies as Affymetrix, Beckman Coulter, Perkin Elmer, and Qiagen will be available at the center, located in Bldg. 364, to discuss their equipment. More information on the center is available on the BBRP Website at <http://microarray.llnl.gov/>.



SECURITY CORNER

Security enhancements around Superblock under way

Over the next two months, there will be heavy construction work in direct support of enhanced site security around buildings, parking lots, pedestrian pathways and roadways, particularly around Bldg. 332. This construction will cause some road closures, loss of available parking and altered traffic patterns. Employees should allow extra time to conduct day-to-day onsite activities. The

Laboratory Fire Department and Protective Force Division have been informed of these response challenges and will use alternative response routes as needed to maintain service capabilities. For more information or to report concerns, contact your program security repre-

sentative (see <http://www.r.llnl.gov/security/program/refs/>).

This area	will be closed to
2nd Street	vehicles & pedestrians
3rd Street	vehicles
Post 3C (north of Bldg. 235)	vehicles
Bldg. 329/Bldg. 321 entrance	vehicles
Southgate Drive	vehicles

MURRAY

Continued from page 1

research accomplishments with leadership and development in industry. The prize consists of \$5,000 and a certificate of recognition. Murray received the award for fundamental studies in surface and scattering physics, and for her previous leadership as senior vice president of Bell Labs Research, Lucent Technologies “overseeing Bell Laboratories at an important time in its history.” “I am thrilled to be a recipient of such a distinguished award,” Murray said. “To be recognized this way by my peers is quite an honor.” Murray will be presented with her award at the annual APS gathering in March 2005 in Los Angeles. The Pake Prize was endowed in 1983 by the Xerox Corporation in recognition of the achievements of George Pake, a research physicist and director of industrial research. The prize is awarded each year to one person for outstanding achievements in physics research combined with major success as a manager of research and development in industry. Previous winners include C. Paul Robinson, director of Sandia National Laboratories, and Charles Shank, former director of



JACQUELINE MCBRIDE/NEWSLINE

Cherry Murray

Lawrence Berkeley National Laboratory. The American Physical Society, an international group of 40,000 members, promotes physics throughout the world and publishes the world’s most prestigious and widely read physical journals (*APS News*, *Physics Today*). Each year

the society recognizes professional accomplishment with a spectrum of prizes, awards and the election of APS Fellows. More information on the Pake Prize and Murray’s citation is posted on the APS Website, at <http://www.aps.or/praw/pake/index.cfm> As deputy director for science and technology at Lawrence Livermore, Murray will lead and oversee the Laboratory’s science and technology activities, including development of the strategic science and technology plan; development of standards for scientific research performance and program quality; and oversight of efforts to recruit, develop and retain the Laboratory’s scientific, engineering and technical workforce. Murray is a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences. *Discover Magazine* named her one of the “50 Most Important Women in Science” in 2002. Murray received her bachelor’s degree and Ph.D. in physics from Massachusetts Institute of Technology. She serves on the governing boards of the National Research Council and Argonne National Laboratory and the executive board and council of the National Academy of Sciences. Murray also is a fellow of APS and the American Association for the Advancement of Science.

R&D award celebration



JACQUELINE MCBRIDE/NEWSLINE

Fifty-one plaques were given out Nov. 18 during the R&D 100 Award winner’s reception. From left to right: Dora Maria Gutierrez, Richard Langlois, Steve Brown, Anthony Makarewicz, Sahnavaz Nasarabadi and Ramakrishna Madabhushi.



Newsline
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